**Chemical Reactions:**

**-Directions: watch this video:** <https://www.youtube.com/watch?v=iUdU3I0zZGk>

**And answer the following questions.**

1. Write your observations for the H2 + O2 animation. What is the mass of all the atoms at the beginning? At the end?

2. Were any *new* atoms created? Explain why or why not.

3. Why was a second H2 molecule added to the box?

4. What is required for chemicals to react? (hint: think about the bonds, and what happens to them, and what is required for these things to happen)

5. What do we call the substances before a reaction takes place? After?

6. How do we know if we’ve seen a chemical reaction?

7. What do we call reactions that give off energy? What about reactions that absorb energy?